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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/810,213	03/26/2004	Koji Sakai	MAT-8524US	8378 ·	
23122 7590 02/09/2007 RATNERPRESTIA				EXAMINER	
P O BOX 980			SAMS, MATTHEW C		
VALLEY FORGE, PA 19482-0980			ART UNIT	PAPER NUMBER	
			2617		
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	· DELIVERY MODE		
3 MONTHS		02/09/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)			
		10/810,213	SAKAI ET AL.			
Office Action Sur	nmary	Examiner	Art Unit			
		Matthew C. Sams	2617			
The MAILING DATE of the Period for Reply	is communication app	ears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY WHICHEVER IS LONGER, FR - Extensions of time may be available unde after SIX (6) MONTHS from the mailling d - If NO period for reply is specified above, 1 - Failure to reply within the set or extended	OM THE MAILING DA or the provisions of 37 CFR 1.13 ate of this communication. the maximum statutory period w period for reply will, by statute, in three months after the mailing	'IS SET TO EXPIRE 3 MONTH ATE OF THIS COMMUNICATIO 16(a). In no event, however, may a reply be till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE date of this communication, even if timely file	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1) Responsive to communic	cation(s) filed on 16 No	<u>ovember 2006</u> .				
2a)⊠ This action is <b>FINAL</b> .	· <del>-</del>					
•	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)	is/are withdraw owed. ed. iected to.					
Application Papers						
Replacement drawing shee	is/are: a) acce hat any objection to the o t(s) including the correcti		ee 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)  1) Notice of References Cited (PTO-89: 2) Notice of Draftsperson's Patent Draw 3) Information Disclosure Statement(s) Paper No(s)/Mail Date	ring Review (PTO-948)	4) Interview Summan Paper No(s)/Mail D 5) Notice of Informal 6) Other:	Date			

Application/Control Number: 10/810,213

Art Unit: 2617

#### **DETAILED ACTION**

## Response to Amendment

1. This office action has been changed in response to the amendment filed on 11/16/2006.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1, 2 and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by JP 11-50735 (hereinafter, JP735).

Regarding claim 1, JP735 teaches a folding mechanism (Fig. 3 [a-d]) comprising:

a fixed member (Fig. 1 [3]) having a plurality of fixed cams disposed on a side face thereof; (Fig. 1 [32 & 34])

a movable member (Fig. 1 [6 & 9]) arranged for rotation with respect to the fixed member having a plurality of movable cams disposed on a side face thereof in confronting relation with the fixed cams; (Fig. 1 [61 & 91]) and

a spring for urging the movable member or the fixed member such that the movable cams and the fixed cams are brought into resilient contact with each other; (Fig. 1 [4 & 7])

Application/Control Number: 10/810,213

Art Unit: 2617

wherein a first set of the movable and fixed cams form an inner camming unit (Fig. 1 [6 & 34]), and

a second set of the movable and fixed cams form an outer camming unit positioned circumferentially around the inner camming unit. (Fig. 1 [9 & 32])

Regarding claim 2, JP735 teaches the folding mechanism according to claim 1 wherein the plurality of fixed cams and movable cams disposed on the outer circumferential side and on the inner circumferential side are each disposed in symmetrical positions with each other. (Pages 2-3 [0010-0013] and Fig. 1 [61a's &91a's opposite of 34 & 32a's])

Regarding claim 4, JP735 teaches the inner and outer camming units are disposed on the fixed and movable members at respective inner and outer circumferential portions thereof such that each respective movable or fixed cam is disposed on one of the inner circumferential portion or the outer circumferential portion. (Pages 2-3 [0010-0013] and Fig. 1 [61a's &91a's opposite of 34 & 32a's])

# Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 3 & 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP735 in view of Nagashima (US-6,658,111).

Application/Control Number: 10/810,213

Art Unit: 2617

Regarding claim 3, JP735 teaches an electronic apparatus (Page 2 [0008]) comprising:

a folding mechanism (Fig. 1 [1]) which comprises a fixed member (Fig. 1 [3]) having a plurality of fixed cams disposed on a side face thereof (Fig. 1 [32 & 34]), a movable member (Fig. 1 [6 & 9] and Pages 3-4 [0018]) arranged for rotation with respect to the fixed member having a plurality of movable cams disposed on a side face thereof in confronting relation with the fixed cams (Fig. 1 [6 & 34, 9 & 32] and Pages 2-4 [0011-0021]), and a spring for urging the movable member or the fixed member so that the movable cams and the fixed cams are brought into resilient contact with each other; (Fig. 1 [4 & 7])

wherein a first set of the movable and fixed cams form an inner camming unit (Fig. 1 [6 & 34]), and a second set of the movable and fixed cams form an outer camming unit positioned circumferentially around the inner camming unit; (Fig. 1 [9 & 32])

a fixed housing (Fig. 3 [11]), a movable housing (Fig. 3 [12]) and a fixed member and the movable member are mounted on the fixed housing and the movable housing, respectively or vice versa. (Fig. 3 and Page 4 [0021-0022]) JP735 differs from the claimed invention by not explicitly reciting the fixed housing having at least one of an operating portion and a voice input portion disposed on an upper face thereof and a movable housing having at least one of a display portion and a voice output portion (Fig. 3 [3a]) disposed on a surface.

Application/Control Number: 10/810,213 Page 5

Art Unit: 2617

In an analogous art, Nagashima teaches a fixed housing (Fig. 2 [2]) having at least one of an operating portion (Fig. 2 [2b]) and a voice input portion (Fig. 2 [2a]) disposed on an upper face thereof, and a movable housing (Fig. 2 [3]) having at least one of a display portion (Fig. 2 [3b]) and a voice output portion (Fig. 3 [3a]) disposed on a surface, wherein the fixed member and the movable member are mounted on the fixed housing and the movable housing, respectively or vice versa. (Fig. 2 [4] and Col. 3 lines 7-25) At the time the invention was made, it would have been obvious to one of ordinary skill in the art to implement the hinge mechanism of JP735 after modifying it to incorporate the specific cellular component layout of Nagashima. One of ordinary skill in the art would have been motivated to do this since the specific components of the cellular phone are not covered within the scope of the JP735 document, but a common configuration is taught within the Nagashima patent.

Regarding claim 5, JP735 in view of Nagashima teaches the inner and outer camming units are disposed on the fixed and movable members at respective inner and outer circumferential portions thereof such that each respective movable or fixed cam is disposed on one of the inner circumferential portion or the outer circumferential portion. (JP735 Pages 2-3 [0010-0013] and Fig. 1 [61a's &91a's opposite of 34 & 32a's])

## Response to Arguments

6. Applicant's arguments with respect to claims 1-5 have been considered but are most in view of the new ground(s) of rejection.

7. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., "the movable housing cannot be opened wider than 180°" Page 6 Para 3) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

#### Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Application/Control Number: 10/810,213 Page 7

Art Unit: 2617

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew C. Sams whose telephone number is (571)272-

8099. The examiner can normally be reached on M-F 7:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester Kincaid can be reached on (571)272-7922. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

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MCS 1/29/2007

LESTER G. KINCAID